

Marked Up Version Of The Pending Claims under 37 C.F.R. 1.121(c)(1)(ii): In accordance with 37 C.F.R. 1.121(c)(1)(ii), the Applicant submits the following marked up version only for claims being changed by the current amendment, wherein the markings are shown by strikethrough (for deleted matter) and/or underlining (for added matter):

Amendment to the Claims

1. (Currently Amended) A method to manage power consumption of a medical imaging detector comprising:

receiving a function to be performed by the medical imaging detector;

determining components of the medical imaging detector that are associated with the received function;

receiving a first triggering signal based on the components associated with the received function;

changing the medical imaging detector to a first power consumption state based on the first triggering signal;

receiving a second triggering signal, wherein the received second triggering signal comprises one of deactivation signal and predictor signal; and

changing the medical imaging detector to a second power consumption state based on the received second triggering signal.

2. (Original) A method of claim 1, wherein the received first triggering signal is an activation signal.

3. (Original) A method of claim 1, wherein the first power consumption state is either an off state, an idle state, an on state, the second power consumption state is either an off state, an idle state, an on state.

4. (Original) A method of claim 1, wherein the first triggering signal is an activation signal;

the first power consumption state is an idle state;

the second power consumption state is either an off state, an on state.

5. (Original) A method of claim 1, wherein the received second triggering signal is a system timeout signal.

6. (Cancelled) ~~A method of claim 1, wherein the received second triggering signal is a deactivation signal and predictor signal.~~

7. (Currently Amended) A method of claim 1 6, wherein the predictor signal is derived from a prediction model.

8. (Original) A method of claim 7, wherein the prediction model is based on one or more correlation of pressure data, correlation of force data, probability prediction based time and force of activation, statistic based on prior use, patient identifier indicia reader.

9. (Original) A method of claim 1, wherein the received first triggering signal is a deactivation signal,

wherein the received second triggering signal is an imaging acquisition completed signal.

10. (Original) A method of claim 9, wherein the first power consumption state is an on state;

wherein the second power consumption state is an off state.

11. (Original) A method of claim 1, wherein the received second trigger signal is absence of timeout, presence of a deactivation, and presence of a predictor signal.

12. (Original) A method of claim 1, wherein the first power consumption state is an on state;

wherein the second power consumption state is an idle state.

13. (Original) A method of claim 12, wherein the received second triggering signal is a system timeout signal.

14. (Currently Amended) A computer-accessible medium having executable instructions to manage power consumption of a medical imaging detector, the executable instructions capable of directing a processor to perform:

processing function request to be performed by the medical imaging detector;
determining components of the medical imaging detector that are associated with the received function request;

processing a received first triggering signal based on the components associated with the function request;

changing the medical imaging detector to a first detector power consumption state based on the processed first triggering signal;

processing a received second triggering signal; and

changing the medical imaging detector to a second power consumption state based on the processed second triggering signal.

15. (Original) The computer-accessible medium of claim 14, wherein the received first triggering signal is an activation signal.

16. (Original) The computer-accessible medium of claim 14, wherein the first power consumption state is either an off state, an idle state, an on state; and wherein the second power consumption state is an off state, an idle state, an on state.

17. (Original) The computer-accessible medium of claim 14, wherein the received first triggering signal is an activation signal; the first power consumption state is either an off state, an idle state, an on state; and the second power consumption state is either an off state, an idle state, an on state.

18. (Original) The computer-accessible medium of claim 14, wherein the received second triggering signal is a system timeout signal.

19. (Original) The computer-accessible medium of claim 14, wherein the received second triggering signal is a deactivation signal and predictor signal.

20. (Original) The computer-accessible medium of claim 19, wherein the predictor signal is derived from a prediction model.

21. (Original) The computer-accessible medium of claim 20, wherein the prediction model is based on one or more correlation of pressure data, correlation of force data, probability prediction based time and force of activation, statistic based on prior use.

22. (Original) The computer-accessible medium of claim 14, wherein the received first triggering signal is a deactivation signal; and wherein the received second triggering signal is an imaging acquisition completed signal.

23. (Original) The computer-accessible medium of claim 14, wherein the first power consumption state is an on state; and wherein the second power consumption state is an off state.

24. (Original) The computer-accessible medium of claim 14, wherein the received second triggering signal is absence of timeout signal, presence of a deactivation signal, and presence of a predictor signal.

25. (Original) The computer-accessible medium of claim 14, wherein the first power consumption state is an on state; and wherein the second power consumption state is an idle state.

26. (Original) The computer-accessible medium of claim 25, wherein the received second triggering signal is a system timeout signal.

27. (Cancelled)

28. (Cancelled)

29. (Cancelled)

30. (Currently Amended) A medical imaging system comprising:
a digital radiographic system having a medical imaging detector;
processor for processing function request to be performed by the digital radiographic system and for determining components of the digital radiographic system that are associated with the function request;
a first device for generating a first triggering signal based on the components associated with the function request;
device for automatically changing the medical imaging detector to a first detector power consumption state based on the first triggering signal;
a second device for generating a second triggering signal; and
device for changing the medical imaging detector to a second power consumption state based on the second triggering signal.

31. (Original) A medical imaging system of claim 30 further comprising:
the first device for generating a first triggering signal is an activation switch.

32. (Original) A medical imaging system of claim 31 wherein the activation switch further comprises one of an electrical switch, an optical switch, or a capacitive switch.

33. (Original) A medical imaging system of claim 32, wherein automatically changing of medical imaging detector to a first power consumption state occurs only if the first triggering signal exceeds an appreciable level.

34. (Original) A medical imaging system of claim 33, wherein in the first power consumption state is an idle state; and wherein the second power consumption state is either an off state, or an on state.

35. (Original) A medical imaging system of claim 30, wherein the first signal is an activation signal that exceeds an appreciable level;

wherein the first power consumption state is either an idle state, or an on state; and

wherein the second power consumption state is either an off state, or an on state.

36. (Original) A medical imaging system of claim 30, wherein the second triggering signal is a system timeout signal.

37. (Original) A medical imaging system of claim 30, wherein the second signal is a deactivation signal and predictor signal.

38. (Original) A medical imaging system of claim 37, wherein the predictor signal is derived from a prediction model.

39. (Original) A medical imaging system of claim 38, wherein the prediction model is based on one or more correlation of pressure data, correlation of force data, probability prediction based time and force of activation, statistic based on prior use.

40. (Original) A medical imaging system of claim 30, wherein the first trigger signal is a deactivation signal; wherein the second trigger signal is an imaging acquisition completed signal; and

the second power consumption state is an off state.

41. (Original) A medical imaging system of claim 30, wherein the first trigger signal is a combination of deactivation signal and prediction signal;
wherein the first power consumption state is an on state; and
wherein the second power consumption state is an off state.

42. (Original) A medical imaging system of claim 30, wherein the first power consumption state is an idle state;
wherein the second trigger signal is absence of timeout signal, presence of a deactivation signal, and presence of a predictor signal; and
wherein the second power consumption state is an on state.

43. (Original) A medical imaging system of claim 30, wherein the first power consumption state is an on state;
wherein the second power consumption state is an idle state.

44. (Original) A medical imaging system claim 30, wherein the second trigger signal is a system timeout signal.